

Title (en)

SYRINGE AND NEEDLE SHIELD ASSEMBLY AND METHOD OF STERILIZING SUCH ASSEMBLY

Title (de)

SPRITZE- UND NADELSCHUTZHÜLSEVORRICHTUNG UND VERFAHREN ZU DEREN STERILISATION

Title (fr)

ENSEMBLE SERINGUE ET PROTECTEUR D'AIGUILLE ET PROCEDE DE STERILISATION D'UN TEL ENSEMBLE

Publication

**EP 1372763 A2 20040102 (EN)**

Application

**EP 02717611 A 20020313**

Priority

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- US 80946901 A 20010315

Abstract (en)

[origin: US7320683B2] A syringe assembly including a needle cannula having a five-beveled point and a needle shield formed of a styrene block poly(ethylene/butylene) thermoplastic elastomer which significantly reduces needle penetration force and may reduce the cycle time for gas sterilization. The multi-beveled needle cannula point includes a primary bevel, a pair of tip bevels and a pair of middle bevels each intermediate the primary bevel and a respective tip bevel, wherein the angles of rotation of the primary bevel and the intermediate bevels are substantially equal resulting in reduced heights of intercepts between the bevels, thereby reducing needle penetration force. The needle shield maintains the sharpness of the needle cannula during application, sterilization and removal of the shield and it is believed that the needle shield will also reduce the cycle time of gas sterilization as compared to rubber needle shields and vulcanizate thermoplastic elastomers.

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**A61M 5/00**

IPC 8 full level

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CPC (source: EP US)

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